

Valgrind Report

By: Group1

Allocate function

```
cg81-user1@instance-1: ~/hrproject/bin
Inside project for:
Inside banking for:

PROJECT ID: P005
Inside project for:
Inside project for:
Inside project for:

#1 ADD EMPLOYEE:
#2 ADD PROJECT:
#3 Allocate Project:
#4 DeAllocate Project:
#5 DELETE EMPLOYEE:
#6 DELETE PROJECT:
#7 UPDATE EMPLOYEE :
#8 UPDATE PROJECT :
#9 GENERATE REPORTS :
ENTER THE CHOICE:
^C==150502==
==150502== Process terminating with default action of signal 2 (SIGINT)
==150502== at 0x4B1F84E: read (read.c:26)
==150502== by 0x4B1F899: _IO_file_underflow@@GLIBC_2.2.5 (fileops.c:517)
==150502== by 0x4B2B01: _IO_default_uflow (genops.c:362)
==150502== by 0x4949960: _gnu_cxx::Stdio_sync_filebuf<char, std::char_traits<char> >::underflow() (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150502== by 0x4957539: std::istream::sentry::sentry(std::istream, bool) (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150502== by 0x495777E: std::istream::operator>>(int&) (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150502== by 0x10EAD6: main (in /home/cg81-user1/hrproject/bin/hr)
==150502==
==150502== HEAP SUMMARY:
==150502== in use at exit: 2,285 bytes in 10 blocks
==150502== total heap usage: 21,751 allocs, 21,741 frees, 381,064 bytes allocated
==150502==
==150502== LEAK SUMMARY:
==150502== definitely lost: 2,192 bytes in 7 blocks
==150502== indirectly lost: 93 bytes in 3 blocks
==150502== possibly lost: 0 bytes in 0 blocks
==150502== still reachable: 0 bytes in 0 blocks
==150502== suppressed: 0 bytes in 0 blocks
==150502== Rerun with --leak-check=full to see details of leaked memory
==150502==
==150502== For lists of detected and suppressed errors, rerun with: -s
==150502== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)

cg81-user1@instance-1:~/hrproject/bin$
```

DeAllocate function

```
cg81-user1@instance-1: ~/hrproject/bin
Inside project for:
Inside banking for:

PROJECT ID: P005
Inside project for:
Inside project for:
Inside project for:

#1 ADD EMPLOYEE:
#2 ADD PROJECT:
#3 Allocate Project:
#4 DeAllocate Project:
#5 DELETE EMPLOYEE:
#6 DELETE PROJECT:
#7 UPDATE EMPLOYEE :
#8 UPDATE PROJECT :
#9 GENERATE REPORTS :
ENTER THE CHOICE:
^C==150551==
==150551== Process terminating with default action of signal 2 (SIGINT)
==150551== at 0x4B1F84E: read (read.c:26)
==150551== by 0x4AB1899: _IO_file_underflow@@GLIBC_2.2.5 (fileops.c:517)
==150551== by 0x4AB2B01: _IO_default_uflow (genops.c:362)
==150551== by 0x494996C: __gnu_cxx::stdio_sync_filebuf<char, std::char_traits<char> >::underflow() (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150551== by 0x4957539: std::istream::sentry::sentry(std::istream&, bool) (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150551== by 0x495777E: std::istream::operator>>(int&) (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150551== by 0x10EAD6: main (in /home/cg81-user1/hrproject/bin/hr)
==150551==
==150551== HEAP SUMMARY:
==150551==   in use at exit: 2,285 bytes in 10 blocks
==150551== total heap usage: 21,751 allocs, 21,741 frees, 381,064 bytes allocated
==150551==
==150551== LEAK SUMMARY:
==150551==   definitely lost: 2,192 bytes in 7 blocks
==150551==   indirectly lost: 93 bytes in 3 blocks
==150551==   possibly lost: 0 bytes in 0 blocks
==150551==   still reachable: 0 bytes in 0 blocks
==150551==   suppressed: 0 bytes in 0 blocks
==150551== Rerun with --leak-check=full to see details of leaked memory
==150551==
==150551== For lists of detected and suppressed errors, rerun with: -s
==150551== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)

cg81-user1@instance-1:~/hrproject/bin$
```

Delete Project function

```
cg81-user1@instance-1: ~/hrproject/bin
Inside project for:
Inside banking for:

PROJECT ID: P004
Inside project for:
Inside project for:
Inside project for:

#1 ADD EMPLOYEE:
#2 ADD PROJECT:
#3 Allocate Project:
#4 DeAllocate Project:
#5 DELETE EMPLOYEE:
#6 DELETE PROJECT:
#7 UPDATE EMPLOYEE :
#8 UPDATE PROJECT :
#9 GENERATE REPORTS :
ENTER THE CHOICE:
^C==150635==
==150635== Process terminating with default action of signal 2 (SIGINT)
==150635== at 0x4B1F84E: read (read.c:26)
==150635== by 0x4AB1899: _IO_file_underflow@@GLIBC_2.2.5 (fileops.c:517)
==150635== by 0x4AB2B01: _IO_default_uflow (genops.c:362)
==150635== by 0x494996C: __gnu_cxx::stdio_sync_filebuf<char, std::char_traits<char> >::underflow() (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150635== by 0x4957539: std::istream::sentry::sentry(std::istream&, bool) (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150635== by 0x495777E: std::istream::operator>>(int&) (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150635== by 0x10EAD6: main (in /home/cg81-user1/hrproject/bin/hr)
==150635==
==150635== HEAP SUMMARY:
==150635==   in use at exit: 2,285 bytes in 10 blocks
==150635== total heap usage: 21,741 allocs, 21,731 frees, 372,191 bytes allocated
==150635==
==150635== LEAK SUMMARY:
==150635==   definitely lost: 2,192 bytes in 7 blocks
==150635==   indirectly lost: 93 bytes in 3 blocks
==150635==   possibly lost: 0 bytes in 0 blocks
==150635==   still reachable: 0 bytes in 0 blocks
==150635==   suppressed: 0 bytes in 0 blocks
==150635== Rerun with --leak-check=full to see details of leaked memory
==150635==
==150635== For lists of detected and suppressed errors, rerun with: -s
==150635== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)

cg81-user1@instance-1:~/hrproject/bin$
```

Delete Employee function

```
cg81-user1@instance-1: ~/hrproject/bin
PROJECT ID: P009
Project Id: P009 Project Type: Technical FIRST NAME: App Development LAST NAME: Apple Research PHONE 1: 06/11/2022 PHONE 2: 10/12/2022 PROFIT CENTER:sdfdd PRIORITY: 2
NUMBER OF EMPLOYEES: 4 NUMBER OF Allocated EMPLOYEES : 2

ENTER EMPLOYEE ID1018
EMPLOYEE 1018 DELETED SUCCESSFULLY

#1 ADD EMPLOYEE:
#2 ADD PROJECT:
#3 Allocate Project:
#4 DeAllocate Project:
#5 DELETE EMPLOYEE:
#6 DELETE PROJECT:
#7 UPDATE EMPLOYEE :
#8 UPDATE PROJECT :
#9 GENERATE REPORTS :
ENTER THE CHOICE:
^C==150565==
==150565== Process terminating with default action of signal 2 (SIGINT)
==150565== at 0x4B1F84E: read (read.c:26)
==150565== by 0x4AB1899: _IO_file_underflow@@GLIBC_2.2.5 (fileops.c:517)
==150565== by 0x4AB2B01: _IO_default_uflow (genops.c:362)
==150565== by 0x494996C: __gnu_cxx::stdio_sync_filebuf<char, std::char_traits<char> >::underflow() (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150565== by 0x4957539: std::istream::sentry::sentry(std::istream, bool) (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150565== by 0x495777E: std::istream::operator>>(int&) (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150565== by 0x10EAD6: main (in /home/cg81-user1/hrproject/bin/hr)
==150565==
==150565== HEAP SUMMARY:
==150565== in use at exit: 2,285 bytes in 10 blocks
==150565== total heap usage: 21,748 allocs, 21,738 frees, 372,713 bytes allocated
==150565==
==150565== LEAK SUMMARY:
==150565== definitely lost: 2,192 bytes in 7 blocks
==150565== indirectly lost: 93 bytes in 3 blocks
==150565== possibly lost: 0 bytes in 0 blocks
==150565== still reachable: 0 bytes in 0 blocks
==150565== suppressed: 0 bytes in 0 blocks
==150565== Rerun with --leak-check-full to see details of leaked memory
==150565==
==150565== For lists of detected and suppressed errors, rerun with: -s
==150565== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)

cg81-user1@instance-1:~/hrproject/bin$
```

Update Employee Function

```
cg81-user1@instance-1: ~/hrproject/bin
#4 Add phone2:
#5 Add Bu:
#6 Add practice
#7 Add qualification
#8 Add areaOfIntrest
ENTER THE CHOICE:
9

#1 ADD EMPLOYEE:
#2 ADD PROJECT:
#3 Allocate Project:
#4 DeAllocate Project:
#5 DELETE EMPLOYEE:
#6 DELETE PROJECT:
#7 UPDATE EMPLOYEE :
#8 UPDATE PROJECT :
#9 GENERATE REPORTS :
ENTER THE CHOICE:
"C==150663==
==150663== Process terminating with default action of signal 2 (SIGINT)
==150663== at 0x4B1F84E: read (read.c:26)
==150663== by 0x4AB1899: _IO_file_underflow@@GLIBC_2.2.5 (fileops.c:517)
==150663== by 0x4AB2B01: _IO_default_uflow (genops.c:362)
==150663== by 0x494996C: __gnu_cxx::stdio_sync_filebuf<char, std::char_traits<char> >::underflow() (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150663== by 0x4957539: std::istream::sentry::sentry(std::istream&, bool) (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150663== by 0x495777E: std::istream::operator>>(int&) (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150663== by 0x10EAD6: main (in /home/cg81-user1/hrproject/bin/hr)
==150663==
==150663== HEAP SUMMARY:
==150663== in use at exit: 1,886 bytes in 8 blocks
==150663== total heap usage: 18,650 allocs, 18,642 frees, 337,369 bytes allocated
==150663==
==150663== LEAK SUMMARY:
==150663== definitely lost: 1,824 bytes in 6 blocks
==150663== indirectly lost: 62 bytes in 2 blocks
==150663== possibly lost: 0 bytes in 0 blocks
==150663== still reachable: 0 bytes in 0 blocks
==150663== suppressed: 0 bytes in 0 blocks
==150663== Rerun with --leak-check=full to see details of leaked memory
==150663==
==150663== For lists of detected and suppressed errors, rerun with: -s
==150663== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)

cg81-user1@instance-1:~/hrproject/bin$
```

Update Project Function

```
cg81-user1@instance-1: ~/hrproject/bin
Inside project for:
Inside banking for:

PROJECT ID: P004
Inside project for:
Inside project for:
Inside project for:

#1 ADD EMPLOYEE:
#2 ADD PROJECT:
#3 Allocate Project:
#4 DeAllocate Project:
#5 DELETE EMPLOYEE:
#6 DELETE PROJECT:
#7 UPDATE EMPLOYEE :
#8 UPDATE PROJECT :
#9 GENERATE REPORTS :
ENTER THE CHOICE:
"C==150689==
==150689== Process terminating with default action of signal 2 (SIGINT)
==150689== at 0x4B1F84E: read (read.c:26)
==150689== by 0x4AB1899: _IO_file_underflow@@GLIBC_2.2.5 (fileops.c:517)
==150689== by 0x4AB2B01: _IO_default_uflow (genops.c:362)
==150689== by 0x494996C: __gnu_cxx::stdio_sync_filebuf<char, std::char_traits<char> >::underflow() (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150689== by 0x4957539: std::istream::sentry::sentry(std::istream&, bool) (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150689== by 0x495777E: std::istream::operator>>(int&) (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28)
==150689== by 0x10EAD6: main (in /home/cg81-user1/hrproject/bin/hr)
==150689==
==150689== HEAP SUMMARY:
==150689== in use at exit: 1,886 bytes in 8 blocks
==150689== total heap usage: 18,644 allocs, 18,636 frees, 337,233 bytes allocated
==150689==
==150689== LEAK SUMMARY:
==150689== definitely lost: 1,824 bytes in 6 blocks
==150689== indirectly lost: 62 bytes in 2 blocks
==150689== possibly lost: 0 bytes in 0 blocks
==150689== still reachable: 0 bytes in 0 blocks
==150689== suppressed: 0 bytes in 0 blocks
==150689== Rerun with --leak-check=full to see details of leaked memory
==150689==
==150689== For lists of detected and suppressed errors, rerun with: -s
==150689== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)

cg81-user1@instance-1:~/hrproject/bin$
```

Reports function

```
cg81-user1@instance-1: ~/hrproject/bin
ASSIGNED PROJECT 2: 0
ASSIGNED PROJECT 3: 0

EMPLOYEE ID: 1020
FIRST NAME: harsha LAST NAME: majji PHONE 1: 8526479862 PHONE 2: 4578963254 BUSINESS UNIT:software PRACTICE: 2 year QUALIFICATION: B.Tech AREA OF Expertise: cppASSIGNED PROJECT 1: 0
ASSIGNED PROJECT 2: 0
ASSIGNED PROJECT 3: 0

EMPLOYEE ID: 1023
FIRST NAME: Tarak LAST NAME: ramarao PHONE 1: 1234567899 PHONE 2: 1123456789 BUSINESS UNIT:software PRACTICE: 3 year QUALIFICATION: Phd AREA OF Expertise: pythonASSIGNED PROJECT 1: 0
ASSIGNED PROJECT 2: 0
ASSIGNED PROJECT 3: 0

EMPLOYEE ID: 1024
FIRST NAME: raja LAST NAME: ss PHONE 1: 2345678912 PHONE 2: 1234567899 BUSINESS UNIT:software PRACTICE: 5 years QUALIFICATION: phd AREA OF Expertise: javaASSIGNED PROJECT 1: 0
ASSIGNED PROJECT 2: 0
ASSIGNED PROJECT 3: 0

(1) Generate List of employees assigned to project with given project ID:
(2) Generate List of project to which employee with given Emp ID is allocated:
(3) Generate List of priority 1 project which are "in-progress":
(4) Generate List of employees having given "area of expertise":
ENTER THE CHOICE:
5
==149190==
==149190== HEAP SUMMARY:
==149190==      in use at exit: 0 bytes in 0 blocks
==149190==    total heap usage: 67 allocs, 67 frees, 102,744 bytes allocated
==149190==
==149190== All heap blocks were freed -- no leaks are possible
==149190==
==149190== For lists of detected and suppressed errors, rerun with: -s
==149190== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
cg81-user1@instance-1:~/hrproject/bin$
```